

Lesson Plan

Date: Nov 10, 2022 Subject: Physical Science Grade Level: 10 Time needed: 75 min

Preliminary Planning

Topic/Central Focus: Why do we do science?

Instructional Plan

Sequence of Learning Activities:

Activity #1: Intro to Class (10 min)

1. Attendance (Question: A 1st grade science question!)
https://www.varsitytutors.com/1st_grade_science-question-of-the-day
2. Prayer and Bible Verse
<https://www.biblegateway.com/passage/?search=Colossians+1%3A16-17&version=ESV>
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Transition: Discuss the question of the day.

Activity #2: Menti (5 min)

1. Trelissa's Menti on Physical Science

Transition:

Activity #3: Why do we teach? (20 min)

1. Trelissa's Story on why she teaches
2. Tom's story on why he teaches science
 - a. Never wanted to be a teacher
 - i. Vowed to never be a teacher
 - b. I always loved science.
 - i. You get to uncover the mysteries of the universe.
 - ii. One of the things that baffled Albert Einstein was this: How is it that the stuff in my mind here can make sense of the world out there?
 - c. When I got to high school, I realized that I didn't just want to be a scientist anymore. I was only pursuing it for selfish reasons.
 - d. Instead, I began to think about the world and how everyone was missing out. It was then that I wanted to become a teacher and show people how awesome this stuff is so that they may enjoy it too.

Transition: Science is all about having a growth mindset. You must be willing to admit when you don't know things and must have a determination to move on as you look toward the bigger picture.

Activity #4: Carol Dweck and Growth Mindset (20 min)

1. Pass out worksheet
2. Watch Carol Dweck's Ted Talk
 - a. https://www.youtube.com/watch?v=_X0mgOOSpLU

Transition: Discuss the sheet together.

Activity #5: Plasma Ball Phenomenon (10 min)

1. Plug in a plasma ball.
2. Turn it on and show it off.
3. Turn it to Sound Mode.
4. Have students pair up and try to figure out why and how it works.

Transition: This is science! We see weird things happen in the world that seem like magic. Our hope in doing science is to discover the wonders of this universe and to be able to harness its power and beauty to produce innovative and marvelous things.

Activity #6: Free Write (10 min)

1. Write about how you view yourself and your mindset. Write about a problem in your life and how you can adjust to have a growth mindset. What might this change?

Closure: We are excited to share this time with you all. As we go through this module, we encourage you to think outside the box, try new things, and to adopt a growth mindset.

Assignment: Find at least one way this weekend to utilize the growth mindset.